



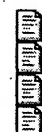



Earth leakage current breaker

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Classification:
- **international:** H02H3/32; G01R27/18; G01R21/00
- **european:** G01R27/18; H02H3/33
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Also published as:

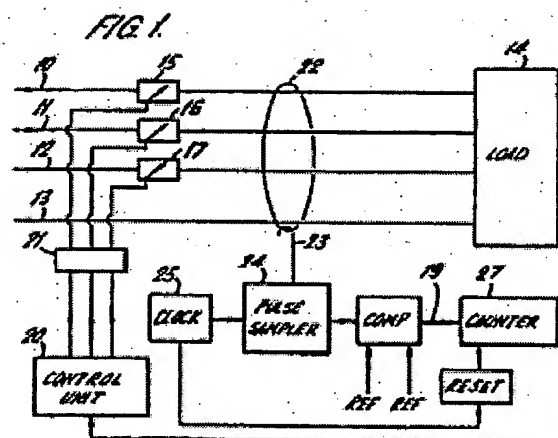
 GB2081994 (A)
 EP0046024 (B)

Cited documents:

 GB2037104
 US4001646
 GB2008345
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Abstract of EP0046024

An earth leakage current breaker for use with an alternating supply having a high sensitivity and a high speed of operation has current transformer means (22, 23) coupled to all three phases and the neutral of a three-phase supply (10-13) and arranged to provide an analogue output representative of the leakage current. This output is pulse sampled by a sampler (24), typically 8 times in each supply cycle and a comparator (26) determines if samples exceed a predetermined amplitude limit. The output signals from the comparator (26) are counted and a circuit breaker (15-17) is opened if the count in a predetermined period, e.g. each half cycle, exceeds a predetermined number, e.g. 2.



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